Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/03/2018

Lab ID	:	**CP-2018-03-19-16**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Mallasandra Govt School Compound other Development works in Mallasandra ward no. 13, Shettyhalli Sub division.
Agency	:	Technical Manager, KRIDL, No.280, 59th Cross, 17th 'C' Main road, 3rd 'Y' Block Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/PD/WO/0035/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-03-2018
Sample ID No	:	2018-03-19-16 /01
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RCC	M25	16/03/2018	23/03/2018	149.98 X 150.97 X 151.58	22642	8.257	521.6	23.0	22.7
2	RCC	M25	16/03/2018	23/03/2018	150.02 X 151.13 X 149.06	22672	8.424	507.2	22.4	
3	RCC	M25	16/03/2018	23/03/2018	149.36 X 150.51 X 150.10	22480	8.423	509.8	22.7	

Note:

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Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-03-19-16** **Date: 13/04/2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Mallasandra Govt School Compound other Development works in Mallasandra ward no. 13, Shettyhalli Sub division.
Agency	:	Technical Manager, KRIDL, No.280, 59th Cross, 17th 'C' Main road, 3rd 'Y' Block Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/PD/WO/0035/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-03-2018
Sample ID No	:	2018-03-19-16 /02
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RCC	M25	16/03/2018	13/04/2018	151.00 X 149.90 X 149.27	22635	8.228	619.2	27.4	27.6
2	RCC	M25	16/03/2018	13/04/2018	150.07 X 151.82 X 150.56	22784	8.319	605.9	26.6	
3	RCC	M25	16/03/2018	13/04/2018	151.64 X 150.09 X 150.09	22759	8.257	659.2	29.0	

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-03-07-10** **Date: 09-03-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Mallasandra Govt School Compound other Development works in Mallasandra ward no. 13, Shettyhalli Sub division.
Agency	:	Technical Manager, KRIDL, No.280, 59th Cross, 17th 'C' Main road, 3rd 'Y' Block Rajajinagar, Bangalore-560010
Customer Reference	:	BBMP/EE/PD/WO/0035/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-03-2018
Sample ID No	:	2018-03-07-10/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	07-03-2018

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.0	300.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	63.0	75.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	236.7	224.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impact value	(B/A)*100	21.0	25.0
6	Aggregate impact value (Mean of two tests)	Pecentage	23.0	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-03-07-10** **Date: 09-03-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Mallasandra Govt School Compound other Development works in Mallasandra ward no. 13, Shettyhalli Sub division.
Agency	:	Technical Manager, KRIDL, No.280, 59th Cross, 17th 'C' Main road, 3rd 'Y' Block Rajajinagar, Bangalore-560010
Customer Reference	:	BBMP/EE/PD/WO/0035/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-03-2018
Sample ID No	:	2018-03-07-10/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	07-03-2018

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	8.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	13.4%	
Combined Flakiness and Elongation Index for WMM	22.1%	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-03-07-10** **Date: 09-03-2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Mallasandra Govt School Compound other Development works in Mallasandra ward no. 13, Shettyhalli Sub division.

Agency : Technical Manager, KRIDL, No.280, 59th Cross, 17th 'C' Main road, 3rd 'Y' Block Rajajinagar, Bangalore-560010

Customer Reference : BBMP/EE/PD/WO/0035/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-03-2018

Sample ID No : 2018-03-07-10/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 07-03-2018

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	100	100	1.0	99.0	95-100
22.4	2800	2900	29.0	71.0	60-80
11.2	2000	4900	49.0	51.0	40-60
4.75	1600	6500	65.0	35.0	25-40
2.36	1500	8000	80.0	20.0	15-30
0.6	1000	9000	90.0	10.0	8-22
0.075	900	9900	99.0	1.0	0-5

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-03-05-14** **Date: 08-03-2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Mallasandra Govt School Compound other Development works in Mallasandra ward no. 13, Shettyhalli Sub division.

Agency : Technical Manager, KRIDL, No.280, 59th Cross, 17th 'C' Main road, 3rd 'Y' Block Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/PD/WO/0035/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-03-2018

Sample ID No : 2018-03-05-14 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 05-03-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	144	230	23.0	77.0	60-95	75-100	85-100	95-100
4	1.18 mm	175	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	179	584	58.4	41.6	15-34	35-59	60-79	80-100
6	300 micron	185	769	76.9	23.1	5-20	8-30	12-40	15-50
7	150 micron	132	901	90.1	9.9	0-10	0-10	0-10	0-15
8	Pan	99	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-03-05-14** **Date: 08-03-2018**

Sample ID No : 2018-03-05-14 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.75	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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